

## SOLDIER PILE LIFTING HOLE

LIFTING HOLE TO BE DRILLED IN THE SHOP PRIOR TO PAINTING THE PILE.

TIMBER LAGGING SIZES $\mu$	
DEPTH (FT) $\tau$	SIZE $\tau$
0 - 9	4 x
9 - 18	6 x
18 - 30	8 x

4 x - OPTIONAL 4 x 8, 4 x 10 OR 4 x 12  
 6 x - OPTIONAL 6 x 8, 6 x 10 OR 6 x 12  
 8 x - OPTIONAL 8 x 8, 8 x 10 OR 8 x 12

### Notes to Designer:

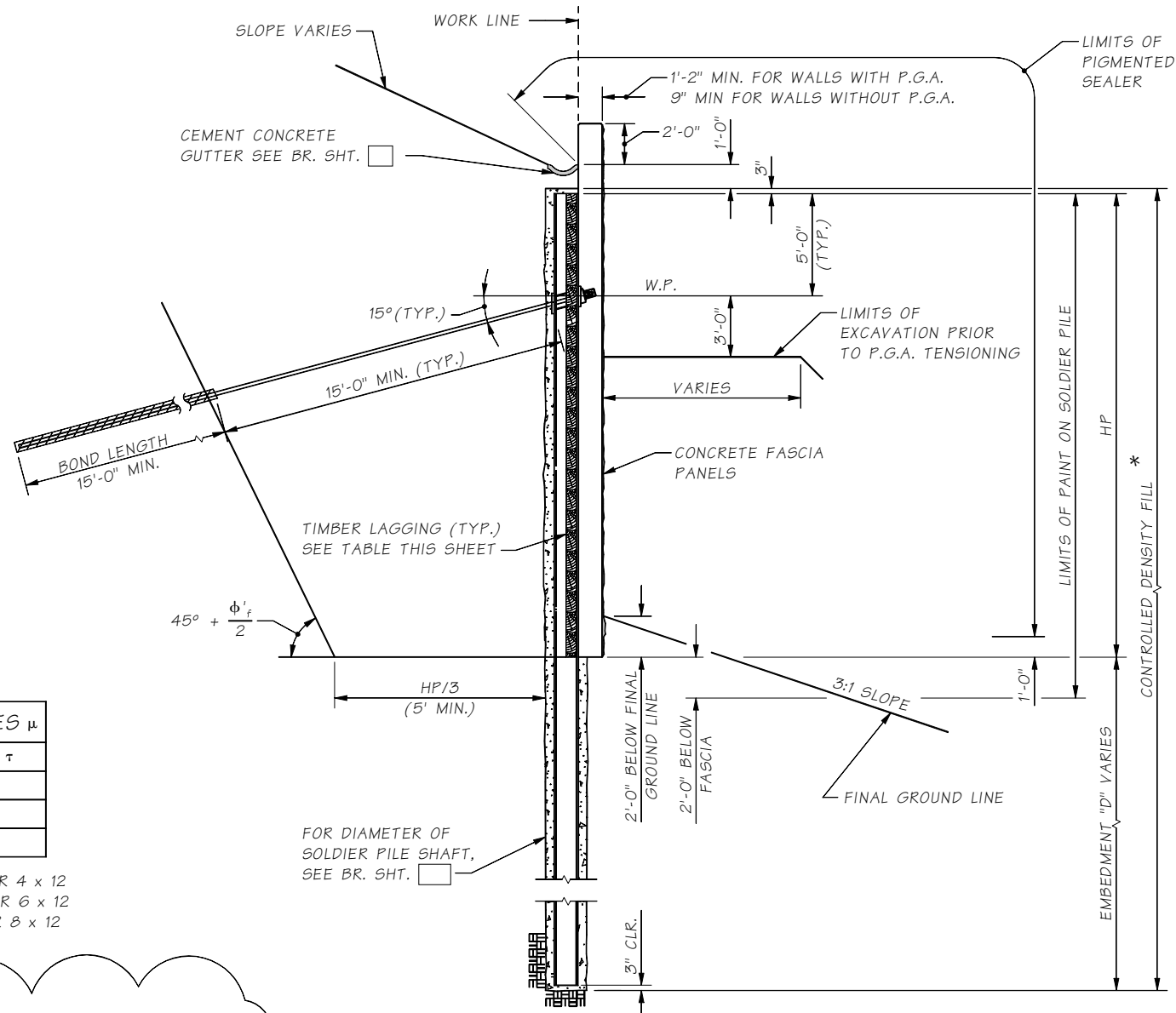
$\tau$  Depths and sizes shown are for example only. Fill in the table according to the earth pressure diagram and recommendations from the Geotechnical Services Branch, based on LRFD timber design for permanent lagging.

$\mu$  Determine, if possible, the length of time that the wall lagging will be used as the primary structural member in the transverse direction before a permanent wall fascia is applied.

For walls with P.G.A. use a section size with a flange width bigger than or equal to HP12x53 or W12x65.

For walls without concrete fascia panels:

- Hem-fir timber lagging shall not be used.
- Douglas fir-larch, grade no. 2 or better, treated in accordance with section 9-09.3(1), shall be used and shall be specified in the plan sheets and Special Provisions.



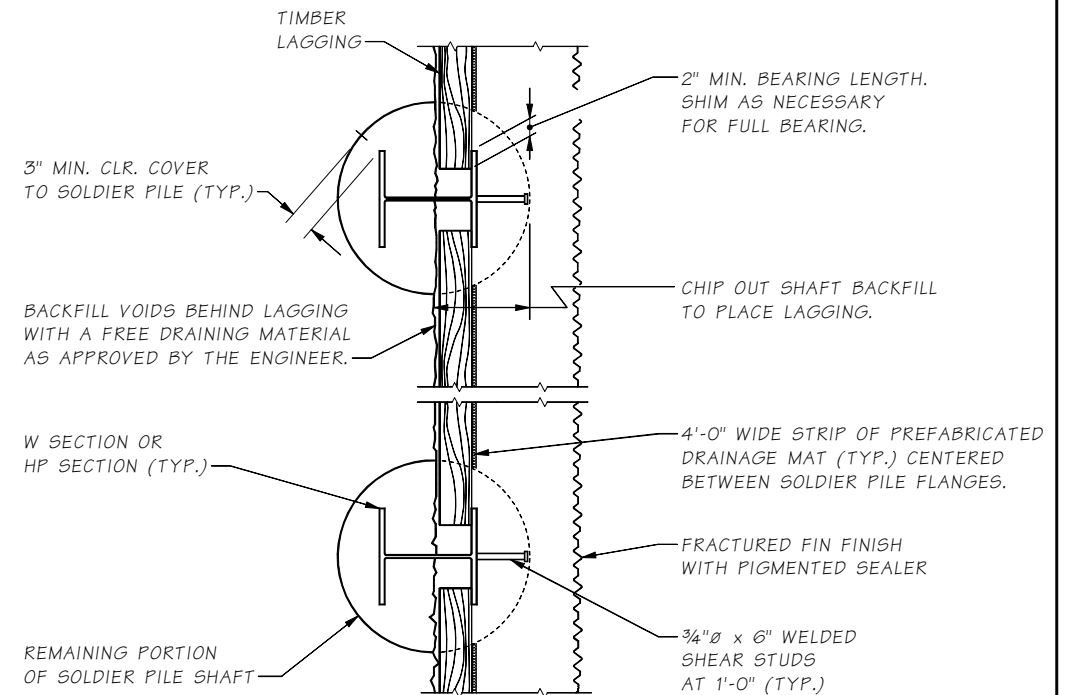
## TYPICAL SECTION

SHOWN FOR SOLDIER PILE WITH P.G.A.  
 SIMILAR FOR SOLDIER PILE WITHOUT P.G.A.

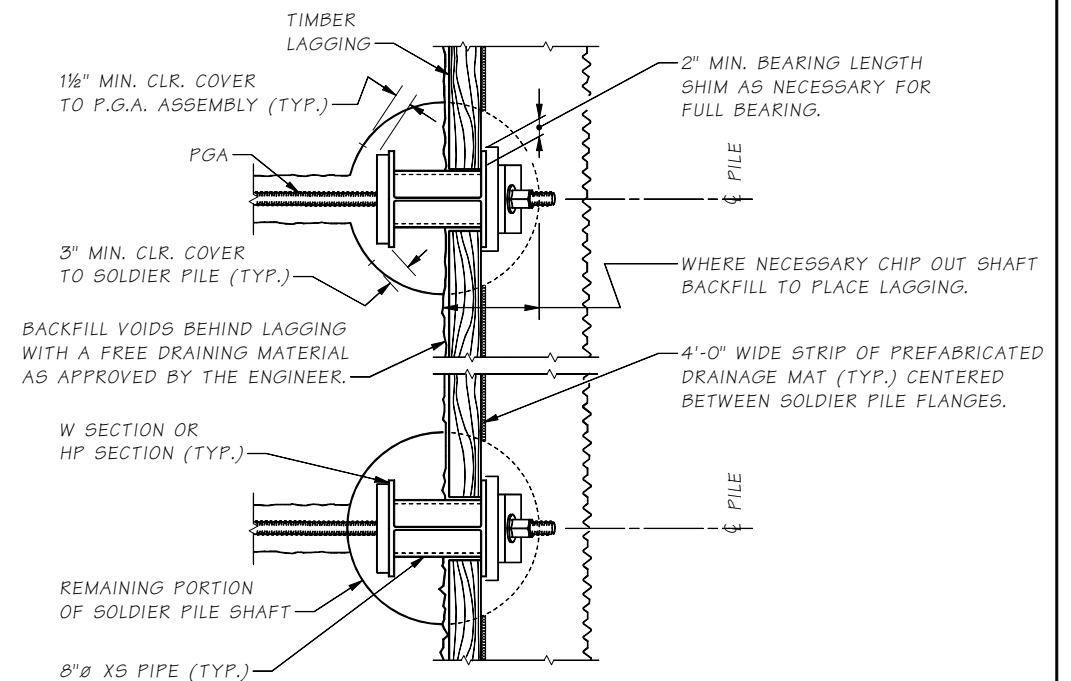
P.G.A.= PERMANENT GROUND ANCHOR

\* USE CONTROL DENSITY FILL WHEN PLACED IN THE DRY. USE PUMPABLE LEAN CONCRETE WHEN PLACED IN THE WET.

LAGGING IN SERVICE  
 36 MONTHS OR LONGER



## PLAN SOLDIER PILE WALL WITHOUT P. G. A.



## PLAN SOLDIER PILE WALL WITH P. G. A.

Bridge Design Engr.	M:1STANDARD WALLS SOLDIER TIEBACK DETAILS B.MAN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE	REVISION	BY	APPD		

Wed Oct 27 10:45:35 2010

BRIDGE  
 AND  
 STRUCTURES  
 OFFICE



SOLDIER PILE/TIEBACK WALL  
 DETAILS 1 OF 2

BRIDGE SHEET NO.
SHEET
OF
SHEETS

SR JOB NO. SHEET 8.1-A3-3